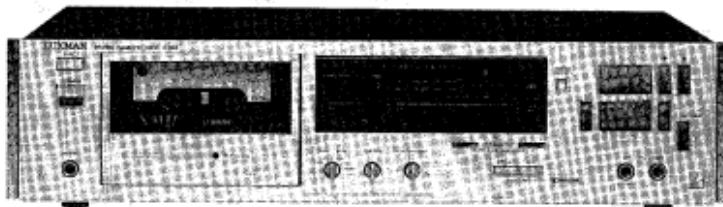


SERVICE MANUAL



STEREO CASSETTE DECK
K-240

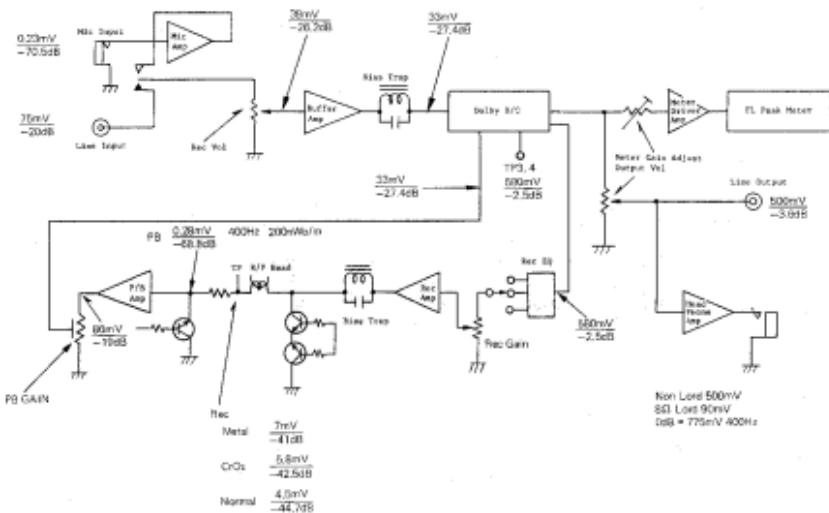


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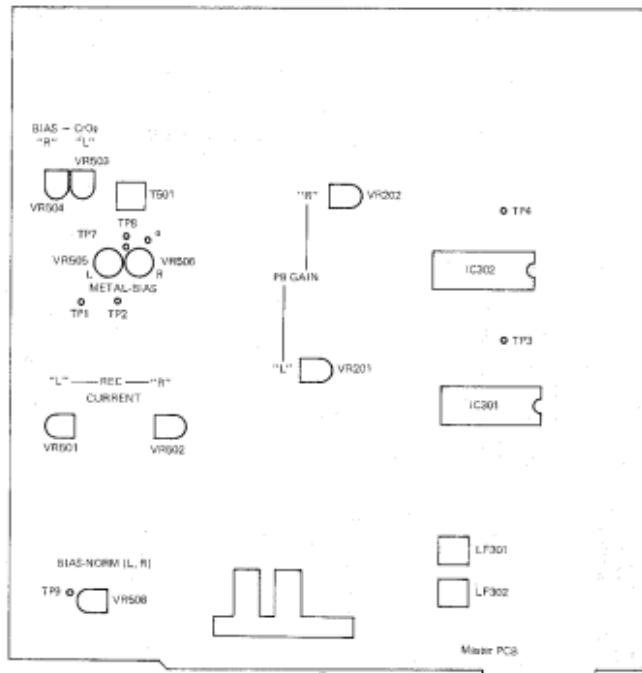
Contents

Level Diagram	1
Adjustment Location	2
Adjustment Procedures	3,4
Exploded View Parts List	5
Exploded View (Mechanism) Parts List	8
Packing Material Parts List	9
Master PCB Parts List	10-14
Control PCB Parts List	15,16
FL Master PCB Parts List	17
Key Board Switch Parts List	18
Rotary Switch PCB Parts List	18
Head Phone PCB Parts List	18
Music Scan PCB Parts List	18
Memory Switch PCB Parts List	19
Indicator PCB Parts List	19
Power Supply PCB Parts List	19
Reed Switch PCB Parts List	19
Schematic Diagram(A)	20
Schematic Diagram(B)	21
IC Handling Guide	22
Destination's Parts List	23
Specifications	23

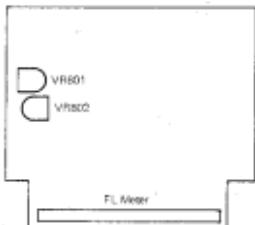
Level Diagram



Adjustment Location

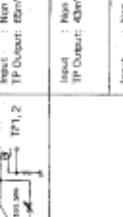
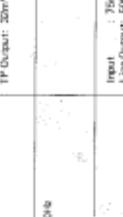
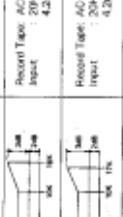
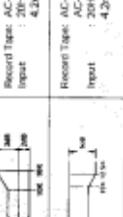


VR201: 22KB P/B Gain Adj. (L-ch)
 VR202: 22KB P/B Gain Adj. (R-ch)
 VR501: 47KB REC Level Adj. (L-ch)
 VR502: 47KB REC Level Adj. (R-ch)
 VR503: 100KB Bias Adj. CrO₂ (L-ch)
 VR504: 100KB Bias Adj. CrO₂ (R-ch)
 VR505: 100KB Bias Adj. Metal (L-ch)
 VR506: 100KB Bias Adj. Metal (R-ch)
 VR508: 2.2KB Bias Adj. Normal, (L/R-ch)
 VR801: 4.7KB Meter Adj. (L-ch)
 VR802: 4.7KB Meter Adj. (R-ch)
 T501: Bias OSC Frequency Adj.

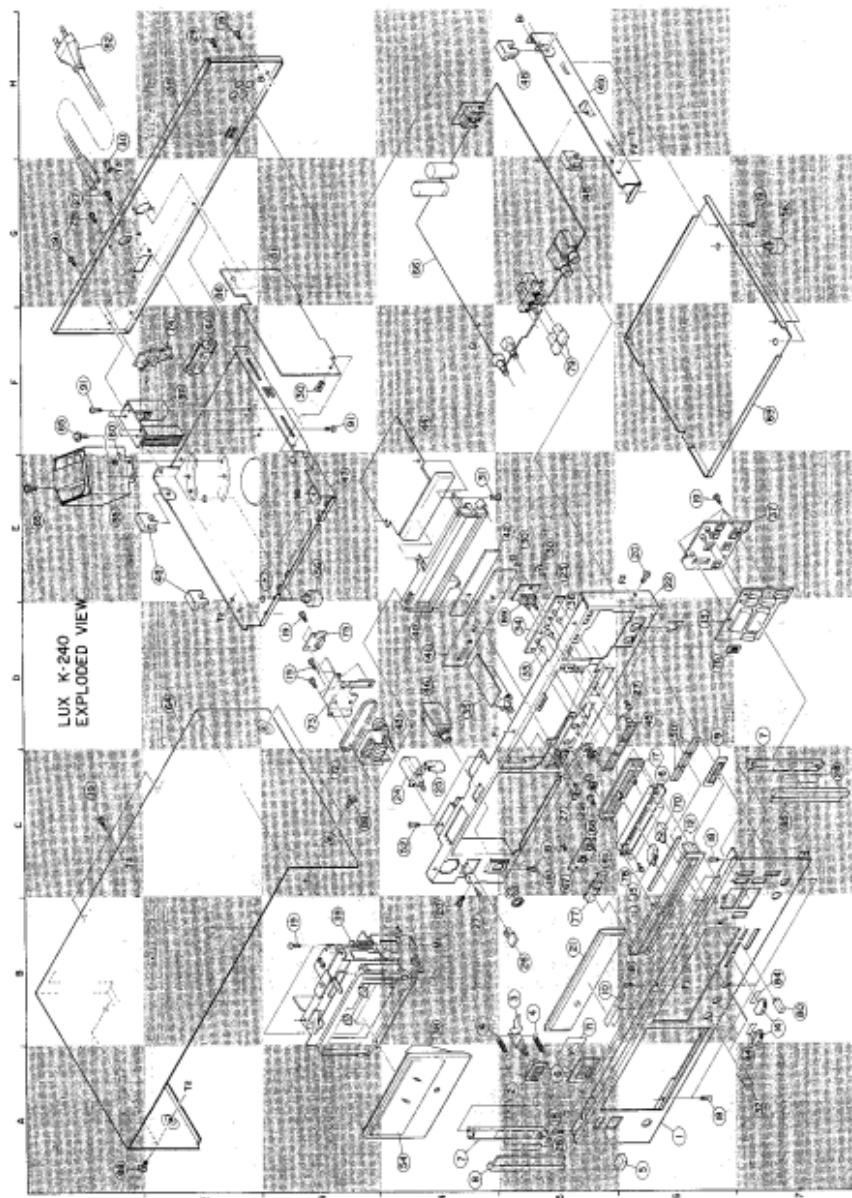


Adjustment Procedures

Step	Description	Mode	Adjusting Point	Test Point	Connection	Procedure
1	Tape Transportation Check	Play				Make sure that does not touch the tape guide or erase and K/F head, by using "Screw Hall". Caution that R/F head is placed without any tilt against the "T-307" gauge.
2	Torque Check	Play, FF & Rew				Take Up Torque : 175-400 g-cm Push Tension Torque : 2-6 g-cm FF & Rew Torque : 10-108 g-cm
3	Tape Speed and Head Flutter Check	Playback				Test Tape : MTT-111 (3 kHz) Speed : 3000 ± 1.5% Head Flutter : No more than 0.05% (JTS W.R.M.S.) For the three above, adjust to 1000 3000 = 3015Hz at the beginning of tape take-up.
4	Head Attenuation Adjustment	Playback		Line Out		Test Tape : MTT-150 (400Hz, 200mW/4V) TTA 4.5mW/V
5	Playback Dolby Level Adjustment	Playback	Tape Select / Normal Dolby NR : Off	TT3 Lch TT4 Rch		Test Tape : MTT-150 (400Hz, 200mW/4V) Line Out : 550mV
6	FL Select Adjustment	Playback		Meter Display		Test Tape : MTT-150 Meter Display : 0 dB
7	Playback Frequency Response Check	Playback	Tape Select / Normal Dolby NR : Off	Step 1-5		Test Tape : MTT-150 Meter Display : MTT-215C
8	Blank Disc Frequency Response Check	Record	Tape Select / Metal Dolby NR : Off	TP2 - TP8 (GND)		Test Tape : MTT-114 or MTT-213C Test Tape : MTT-114 or MTT-213C Test Tape : MTT-150 Meter Display : 0 dB

Step	Description	Node	Adjusting Point	Test Point	Connection	Remarks
a	Bias Current Adjustment	Record Select/Metal Dolby NR : off	VR505 Lch VR506 Rch	TP1-0H0 TP2-0H0		Input : 20mV TF Output: 82mV
9 b	Record Select:Cr02 Dolby NR : off	VR503 Lch VR504 Rch				Input : 20mV TF Output: 43mV
c	Record Select:Normal Dolby NR : off	VR508 L/R/Att				Input : 20mV TF Output: 32mV
10	Input Level Adjustment	Record Select:Normal Dolby NR : off	VR	Line Out		Input : 20mV Line Out: 552mV
11 b	Record Level Adjustment and Check	Record/Play Dolby NR : off	Check	Line Out		Input : 20mV Line Out: 500mV
c	Record/Play Dolby NR : off	VR501 Lch VR502 Rch				
12 b	Record/Play Dolby NR : off	VR507 Lch VR508 Rch	Step 8-11	Line Out		Record Test: AC-711 Input : 20Hz - 1884Hz 4.2mV
c	Record/Play Dolby NR : off					Record Test: AC-512 Input : 20Hz - 171Hz 4.2mV
13 c	Record/Playback Frequency Response Check (Dolby)	VR509 Lch VR510 Rch				Record Test: AC-711, AC-512 Input : 20Hz - 1818Hz 4.2mV

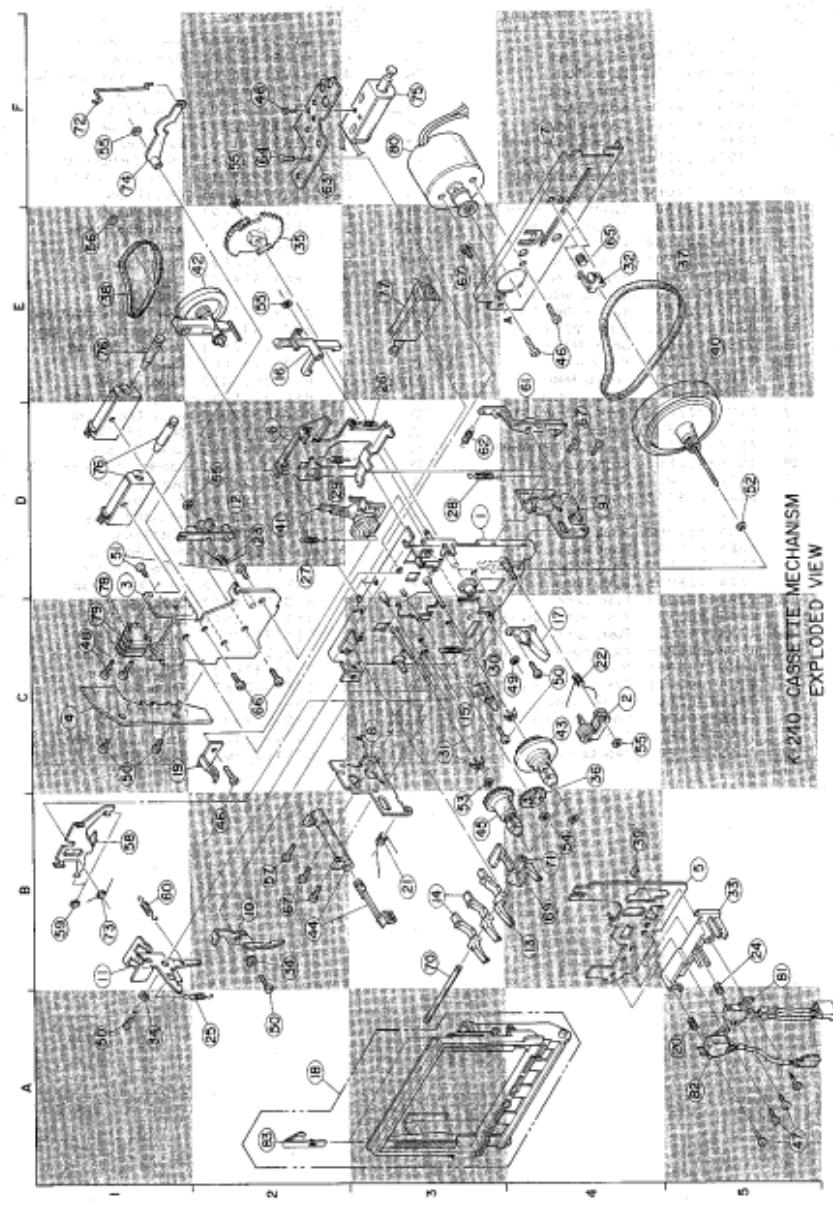
Exploded View



Exploded View Parts List

Index	Symbol No.	Stock No.	Description	Index	Symbol No.	Stock No.	Description
A6	1	64D61139F01	Panel, Front	F4	44	01V61900F37	Ass'y, FL Meter PCB
A5	2	07A45558F04	Frame, Eject	D6	45	43A61328F01	Bush, Lamp
B5	3	45A59461F01	Lever, Eject	D4	46	01V61900F34	Ass'y, Head Phone PCB
B4,B5	4	41A45559F01	Spring, Eject	E3	47	27D58921F02	Chassis, Bottom
A6	5	36A44340F05	Knob, Eject	E2,G5	48	07A61143F01	Spacer, Side
A5	6	61A56641F01	Cryatal, Indicator	H5	49	27C58922F01	Chassis, Side
A4,D7	7	07A57175F01	Bracket, Side Panel	D6	50	61A61141F01	Lens, Indicator
A4	8	07B56624F01	Frame, Side Panel	G3	51	01V61900F32	Ass'y, Control PCB
D6	9	07A61138F01	Frame, Push Knob	C4	52	03S44205G16	Screw T-Tite M3X6
B5	10	75B44632G04	Ped, Cushion	A4	54	01C57187F01	Crystal Door
B6	11	13C61140F01	Escutcheon, Volume	E1	55	25T60094F01	Trans Power
C5	12	43A57191F01	Spacer, Escutcheon	E3,G7	56	75A60070F01	Ass'y, Pad Rubber
D6	13	01V61900F44	Ass'y, Knob Logic	F2	57	07T563351F02	Heatsink
D6	14	36B57177F01	Knob Control	H2	59	15C58925F03	Cover, Rear
C6	15	43B57179F01	Spacer, Knob Control B	F1	60	29A41814F01	Lug
C6	16	07B57169F01	Bracket, Side Volume	F2	61	09T60093F01	Socket AC
C6	17	18T52629F01	Volume, Side 20K	H2	62	30T60805F01	Cord Set (Service) SK/OK, BKAK
A5,A6	18	03S40012G26	Screw, M3X6	D2	64	15D61137F01	Cord Set (BS) AG
C1,B3	19	03S40012G03	Screw, M3X6	E1,F1	65	03S40036U16	Cover, Top
B4	20	03S40012G08	Screw, M4X6	G4	66	01V61900F31	Screw, M4X6
B5	21	61B57222F01	Crystal, Meter	C5	67	01V61900F50	Ass'y, Music Scan
E6	22	27D61136F01	Chassis, Front	C5	68	03S40018G02	Screw TPG M3X8
E5	23	01V61900F40	Ass'y, Indicator PCB	F7	69	15C58942F01	Cover, Bottom
C4	24	40T45561F02	Switch, Power	C6	70	43B57178F01	Spacer, Knob Control (A)
C4	25	43T53138F01	Bush, Cap TP150-301	B5	71	43A55628F01	Spacer, Power
B5	26	36A56639F01	Knob, Push 1171	C3	72	42A57223F01	Belt, Counter
B4,C5	27	03S40011G17	Screw, M3X6	D3	73	07B57165F01	Bracket, Counter
A5,C7	28	14S53018F52	Insulator, 50x12	F2	74	09T57205F01	Plate Phone
C5,G1	29	03S40012G41	Screw M3X8	D3	75	01V61900F38	Ass'y, Reed SW
E5,F3	30	05B41635J02	Rivet, Push	D6	76	07A61144F01	Frame, Push SW
E4	31	05B41635J03	Rivet, Push	B5	77	36B51142F02	Knob, Music Scan
A7	32	36B51033F02	Knob, Rotary	C6	78	03C40014G12	Screw, M2.6X4
D5	33	43A41728U15	Bush, Lamp	F5	79	36A57176F01	Knob, Push (A)
D5	34	43A41728U14	Bush, Lamp	B7	80	36A57180F01	Knob Push (B)
D4	35	01V61900F35	Ass'y, Rotary SW PCB	C5	81	36B51142F01	Knob, Music Scan
D5	36	43A41728U11	Bush, Lamp	A7	84	75A57370F01	Pad, Cusheon
E7	37	01V61900F45	Ass'y, Key Board SW	C7	85	07B56624F02	Frame, Panel Side
B4	38	64B57188F01	Plate, Door	G2	86	09T50251F01	Jack, Cont
B3	39	01U61000F18	CAS Deck FL87E030	A1,C3	88	03S40036U07	Screw, M4X12
D4	40	07C57182F01	Frame, Meter	D5	89	01V61900F39	Ass'y, Memory SW
D4	41	61A57154F03	Filter, Meter (A)	F1,F3	91	03S40011G17	Screw, M3X6
E5	42	61A57184F01	Filter, Meter (B)				
D4	43	72T57221F01	Tape Counter				

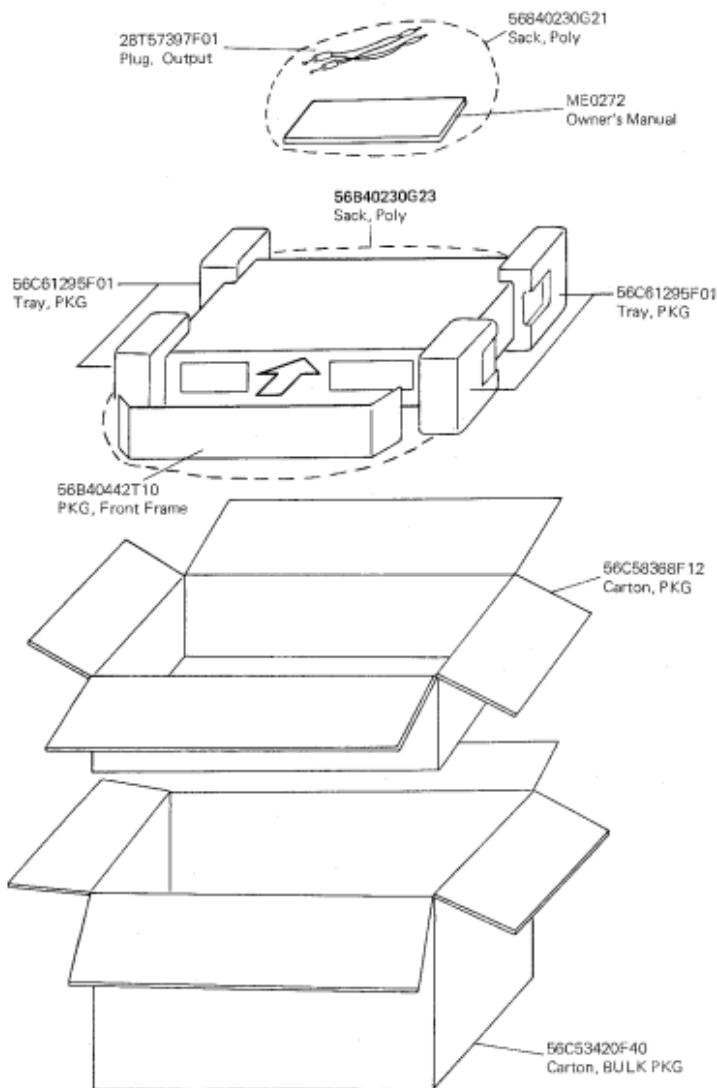
Exploded View (Mechanism)



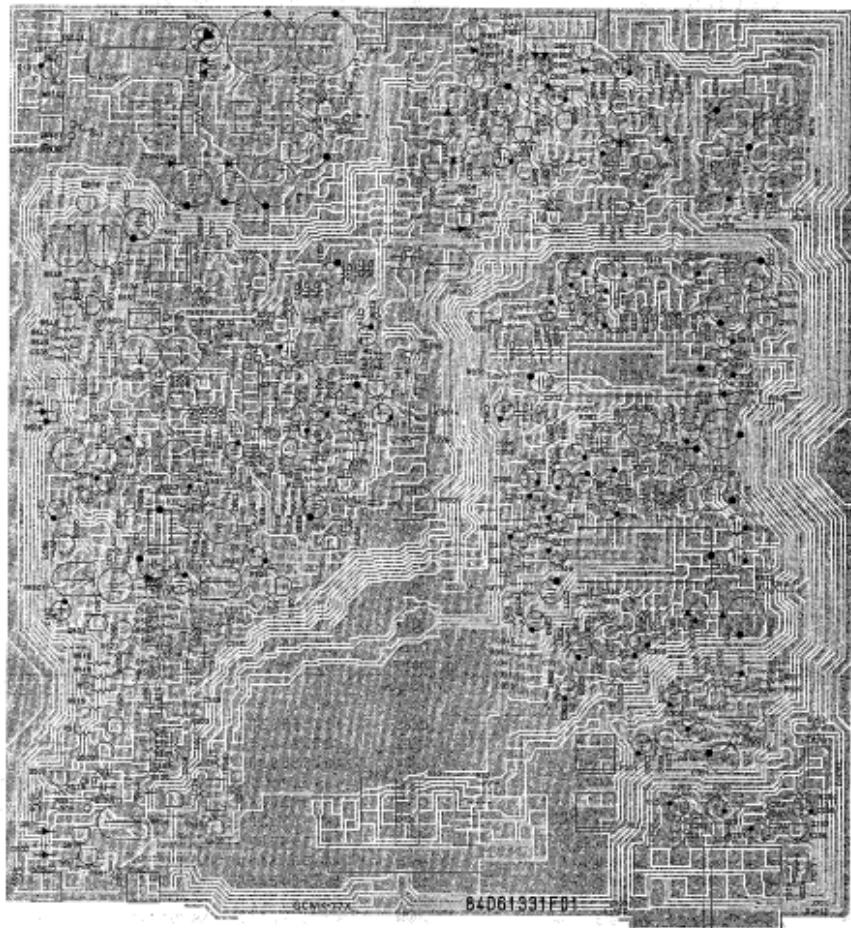
Exploded View (Mechanism) Parts List

Index	Symbol No.	Stock No.	Description	Index	Symbol No.	Stock No.	Description
D3	1	FO11-169	Ass'y, Chassis	E2	42	FP470-11	Ass'y, Clutch
C4	2	FO14-053	Ass'y, Pinch Roller	C4	43	F123-025	Ass'y, Take Up Reel
D1	3	FP214-019	Bracket, Solenoid Reserve Stock	B2	44	FP472-11	Ass'y, Clutch
C1	4	FP13D-11	Connector, Panel	B3	45	F105-039	Ass'y, Reel
B5	5	FO12-068	Plate, Head Reserve Stock	B2,E4	46	FG114-15	Screw, W/Washer
D2	6	FC11P-13	Base, Assist	A5	47	FG137-15	Screw, F-Lock
F4	7	FR347-12	Bracket, Motor	C1	48	FG143-30	Screw Pan
C3	8	FR349-17	Bracket, Dumper	C4	49	FJ141-12	Washer, Oil Shield
D4	9	FR350-15	Bracket, Door	A1,A2	50	KG194-12	Screw, Pan
B2	10	FR352-11	Lever, Safety	D1	51	KG194-46	Screw, Tap Tite
B1	11	FC32U-11	Arm, Eject Lock	D5	52	FJ111-14	Washer, Poly
D2	12	FR355-15	Arm, FF Solenoid	B3	53	FJ111-19	Washer, Poly
B4	13	FD26K-12	Arm, Cassette	B4	54	FJ123-14	Washer, Poly
B3	14	FD26L-11	Arm, Record	C4,D2	55	FJ123-21	Washer, Lock
C3	15	FR358-14	Reference, Guide	E1	56	FJ123-19	Washer, Lock
E2	16	FD11L-12	Arm, Play Solenoid	B2	57	UG11D-11	Screw, Tap Tite
C4	17	FR360-12	Guide, Cassette	B1	58	FC15G-14	Lever, Brake
A2	18	FO27-062	Frame, Door Ass'y	B1	59	FF11C-14	Rubber, Brake
C1	19	FK551-13	Spring, Cassette	B1	60	FK18M-11	Spring, Arm Eject
A5	20	FK572-12	Spring, Azimuth	E4	61	FD11K-14	CR, Lock Panel
B3	21	FK558-11	Spring, Door	D3	62	FK11A-12	CR, Spring Lock Panel
C4	22	FK559-14	Spring, Pinch Roller	F2	66	FC11N-12	Bracket, Solenoid
D2	23	FK11N-11	Spring, Blk Solenoid	F2	64	FG182-11	Screw, Tap Tilt
B5	24	FK572-11	Spring, Azimuth	E4	65	FK11F-16	Spring, Sress
A2	25	FK573-11	Spring, Arm Lock	C2	66	FG143-17	Screw, pan
E3	26	FK574-13	Spring, Base Assist	B2,D4	67	KG189-11	Screw, pan
D2	27	FK575-11	Spring, Play Idler	B4	69	FD26M-12	Arm (M)
D3	28	FK19K-11	Spring, Play Solenoid Arm	B3	70	FL25F-11	Shaft (A)
D4	29	FK577-13	Spring, Head Base	B4	71	KG111-19	Ring (E)
C3	30	FK578-13	Spring, Head Base Hold	F1	72	FK11Y-14	Brake, Rod
C3	31	FK579-14	Spring, Back Tension	B1	73	FK12A-12	Spring, Brake
E4	32	FM281-12	Spacer, Flywheel	F1	74	FD12W-12	Arm, Brake
B5	33	FM283-14	Spacer, Head	F3	75	PKA16103	Solenoid
A1,B2	34	FM296-11	Spacer	D1,E1	76	PKA16106	Solenoid
E2	35	FN153-11	Gear, Play	E3	77	PKA16101	Solenoid
C4	36	FM154-14	Gear, Idler	D1	78	FE173-11	Slide SW
E5	37	FP452-11	Belt, Main	C1	79	FE173-11	Slide SW
E1	38	FP453-11	Belt, Sub	F3	80	F064-093	Ass'y, Motor
B4	39	FP464-11	Pad, Cushion	B5	81	F029-156	Head R/P
E5	40	FP457-12	Ass'y, Flywheel	A5	82	F030-052	Head, Erase
D2	41	FP459-12	Ass'y, Idler	A2	83	FC32M-12	Holder, SP

Packing Material Parts List



Master PCB Parts List



Master Board Parts List

Symbol No.	Stock No.	Description	Symbol No.	Stock No.	Description			
(Jack)								
J201	09T57396F01	Plate, Phone4P (JAL)	Q302	48S43525F05	2SC1815-Y, GR			
J203	09T60076F01	MIC	Q303	48S43525F05	2SC1815-Y, GR			
J204	09T60076F01	MIC	Q405	48T57305F01	2SD1302-S, T			
(Coil OSC)								
T501	24T60049F01	Coil OSC	Q406	48T57305F01	2SD1302-S, T			
(Coil)								
L301	24T47741F01	36mH	Q407	48T43015U01	2SC2120-Y			
L302	24T47741F01	36mH	Q408	48T43015U01	2SC2120-Y			
L501	24S41448F99	4700uH	Q501	48S43525F05	2SC1815-Y, GR			
L502	24S41448F99	4700uH	Q502	48S43525F05	2SC1815-Y, GR			
L503	24T44499P01	27mH	Q503	48S43525F05	2SC1815-Y, GR			
L504	24T44499P01	27mH	Q504	48S43525F05	2SC1815-Y, GR			
(Switch)								
S301	40T61330F01	Push SUL 2Key	Q505	48S43525F05	2SC1815-Y, GR			
S302	40T61330F01	Push SUL 2Key	Q506	48S43525F05	2SC1815-Y, GR			
(Variable, Resistor)								
VR201	18T52946F15	22KB	Q509	48T57305F01	2SD1302-S, T			
VR202	18T52946F15	22KB	Q510	48T57305F01	2SD1302-S, T			
VR401	18T60151F01	5K-A	Q511	48S43394P01	2SC1890 E, F			
VR501	18T52946F17	47KB	Q512	48S48894P01	2SC1890 E, F			
VR502	18T52946F17	47KB	Q513	48S40832F03	2SC1318NC-R			
VR503	18T52946F19	100KB	Q514	48S40832F03	2SC1318NC-R			
VR504	18T52946F19	100KB	Q515	48T43015U01	2SC2120-Y			
VR505	18B44064J07	100K-1/2	Q516	48T61307F01	DTC114			
VR506	18B44064J07	100K-1/2	Q517	48T61307F01	DTC114			
VR507	18T60150F01	1K-B	Q518	48S43525F05	2SC1815-Y, GR			
VR508	18T52946F09	2.2KB	Q901	48T40081T03	2SA733(P)			
(Diode, Bridge)								
BD101	48T50629F01	WL-02	Q902	48S43525F05	2SC1815-Y, GR			
(Filter)								
LF301	91T61321F01	MPX(38K)	Q903	48T42941U01	2SA921S			
LF302	91T61321F01	MPX(38K)	Q904	48S43525F05	2SC1815-Y, GR			
(Fuse)								
F101	65T42077U16	Semko T-1A	Q905	48S43525F05	2SC1815-Y, GR			
F102	65T42077U16	Semko T-1A	Q906	48S43525F05	2SC1815-Y, GR			
(Holder, Fuse)								
F101	09T45548F01	Holder, Fuse	Q907	48T40031T03	2SA733(P)			
F102	09T45548F01	Holder, Fuse	Q908	48T61307F01	DTC114			
(IC)								
IC301	51T52160F01	HA12036-01	Q909	48T40081T03	2SA733(P)			
IC302	51T52160F01	HA12033-01	Q910	48S43525F05	2SC1815-Y, GR			
IC501	51S43471U02	UPC4558C	Q911	48S43525F05	2SC1815-Y, GR			
(Transistor)								
Q201	48S43394P01	2SC1890 E, F	Q912	48T40081T01	2SA733(P)			
Q202	48S43394P01	2SC1890 E, F	Q913	48T40081T03	2SA733(P)			
Q203	48S43394P01	2SC1890 E, F	Q914	48T40081T03	2SA733(P)			
Q204	48S43394P01	2SC1890 E, F	Q915	48T40081T03	2SA733(P)			
Q205	48S43525F05	1SC1315-Y, GR	(Diode)					
Q206	48S43525F05	2SC1815-Y, GR	D501	48T61129F01	GP10-4003-R5			
Q207	48S47706F04	2SC1843 E	D502	48T58583F01	SS176TPA7			
Q208	48S47706F04	2SC1843 E	D504	48T58583F01	SS176TPA7			
Q209	48S47706F04	2SC1843 E	D505	48T53583F01	SS176TA			
Q210	48S47706F04	2SC1843 E	D902	48T53583F01	SS176PAT7-A			
Q213	48S43525F05	2SC1815-Y, GR	D903	48T58583F01	SS176TPA7			
Q214	48S43525F05	2SC1815-Y, GR	D904	48T53429F01	1SS581			
Q251	48S47706F04	2SC1843 E	D905	48T58583F01	SS176TPA7			
Q252	48S47706F04	2SC1843 E	D906	48T58583F01	SS176TPA7			
Q301	48S43525F05	2SC1815-Y, GR	D907	48T58582F01	SS176TPA7			
(Diode, Zener)								
ZD101	48T40150U80	H220-2	D908	48T58583F01	SS176TPA7			
ZD102	48T40150U66	H212B-33	D909	48T58583F01	SS176TPA7			
ZD105	48T40150U71	H215-2	D910	48T58583F01	SS176TPA7			
ZD105	48T40150U71	H215-2	D911	48T58583F01	SS176TPA7			
ZD92	48T58583F01	SS176TPA7	D912	48T58583F01	SS176TPA7			

Symbol No.	Stock No.	Description		Symbol No.	Stock No.	Description		
ZD301	48T40150Z68	HZ12C-2		C327	08S40656F13	0.01uF	My	
ZD302	48T40150U68	HZ12C-2		C328	08S40656F13	0.01uF	My	
ZD303	48T40150U32	HZ6B-2		C329	23S40657F16	4.7uF	25V	
ZD501	48T40150U76	HZ18-1		C330	23S40657F16	4.7uF	25V	
(Capacitor)								
C101	23S40657F28	1uF	50V	E1	C331	08S40656F16	0.018uF	My
C102	23S41198U67	1000pF	50V	E1	C332	08S40656F16	0.018uF	My
C103	2SS41198U57	470pF	25V	E1	C333	23T42478F21	0.33uF	50V
C104	23S41198U42	220uF	250V	E1	C334	23T42478F21	0.33uF	50V
C105	23S41198U72	2200uF	25V	E1	C335	23T42478F21	0.33uF	50V
C106	23C41198U56	470uF	16V	E1	C336	23T42478F21	0.33uF	50V
C107	23S40657F14	100uF	16V	E1	C337	08S40656F15	0.015uF	My
C201	08T55260F45	470pF	Ce	C338	08S40656F15	0.015uF	My	
C202	08T55260F45	470pF	Ce	C339	23S40657F28	1uF	50V	
C203	23T42478F09	4.7uF	25V	E1	C340	23S40657F28	1uF	50V
C204	23S43478F09	4.7uF	25V	E1	C341	23S40657F28	1uF	50V
C205	08T55260F45	470pF	Ce	C342	23S40657F28	1uF	50V	
C206	08T55260F45	470pF	Ce	C343	23S40657F10	10uF	16V	
C207	08T55260F29	47pF	Ce	C344	23S40657F10	10uF	16V	
C208	08T55260F29	47pF	Ce	C345	08T55260F27	39pF	Ce	
C209	23S40657F14	100uF	16V	E1	C346	08T55260F27	39pF	Ce
C210	23S40657F14	100uF	16V	E1	C347	08S40656F10	5600pF	My
C211	08S40656F07	3300pF	My	C348	08S40655F10	5600pF	My	
C212	08S40656F07	3300pF	My	C349	08T55260F49	1000pF	Ce	
C213	23S40657F10	10uF	16V	E1	C350	08T55260F49	1000pF	Ce
C214	23S40657F10	10uF	16V	E1	C351	08S40656F07	3300pF	My
C217	08T55260F49	1000pF	Ce	C352	08S40655F07	3300pF	My	
C218	08T55260F49	1000pF	Ce	C353	08S40657F10	10uF	16V	
C221	23S40657F16	4.7uF	25V	E1	C354	08S40657F10	10uF	16V
C222	23S40657F10	10uF	16V	E1	C355	08S40657F08	3900pF	My
C225	08S40656F14	0.012uF	My	C356	08S40657F08	3900pF	My	
C226	08S40656F14	0.012uF	My	C357	08S40657F24	0.082uF	My	
C228	23S40657F21	100uF	25V	E1	C358	08S40657F24	0.082uF	My
C251	08T55260F49	1000pF	Ce	C359	23S40657F16	4.7uF	25V	
C252	08T55260F49	1000pF	Ce	C360	23S40657F16	4.7uF	25V	
C253	23S40657F16	4.7uF	25V	E1	C361	23T42478F19	0.15uF	50V
C254	23S40657F16	4.7uF	25V	E1	C362	23T42478F19	0.15uF	50V
C255	23S40657F10	10uF	16V	E1	C363	23S40657F27	0.47uF	50V
C256	23S40657F10	10uF	16V	E1	C364	23S40657F27	0.47uF	50V
C301	23S40657F20	47uF	25V	E1	C365	23S40657F09	220uF	10V
C303	23S40657F16	4.7uF	25V	E1	C366	23S40657F09	220uF	10V
C304	23S40657F16	4.7uF	25V	E1	C367	08S40656F04	1800pF	My
C305	23S40657F10	10uF	16V	E1	C371	23S40657F10	10uF	16V
C306	23S40657F10	10uF	16V	E1	C372	23S40657F10	10uF	16V
C309	23S40657F52	220uF	16V	E1	C413	23S40657F29	2.2uF	50V
C310	23S40657F52	220uF	16V	E1	C414	23S40657F29	2.2uF	50V
C311	23S40657F12	33uF	16V	E1	C415	08T55260F33	68pF	Ce
C313	23S40657F24	22uF	35V	E1	C416	08T55260F33	68pF	Ce
C314	23S40657F24	22uF	35V	E1	C417	23S40657F09	220uF	10V
C317	23S40657F28	1uF	50V	E1	C418	23S40657F09	220uF	10V
C318	23S40657F28	1uF	50V	E1	C503	08S44503P06	0.0027uF	My
C319	23S40657F28	1uF	50V	E1	C504	08S44503P06	0.0027uF	My
C320	23S40657F28	1uF	50V	E1	C505	08T55260F41	220pF	Ce
C321	23S40657F14	100uF	16V	E1	C506	08T55260F41	220pF	Ce
C322	23S40657F14	100uF	16V	E1	C507	08T55260F49	1000pF	Ce
C323	08S40656F15	0.015uF	My	C508	08T55260F49	1000pF	Ce	
C324	08S40656F15	0.015uF	My	C509	08T55260F44	390pF	Ce	
C325	23S40657F10	10uF	16V	E1	C510	08T55260F44	390pF	Ce
C326	23S40657F10	10uF	16V	E1	C511	08S40656F02	1200pF	My

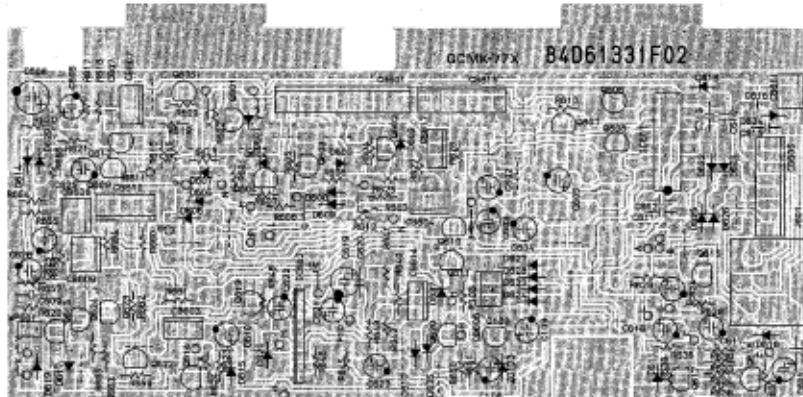
Symbol No.	Stock No.	Description	Symbol No.	Stock No.	Description				
C512	08S40656F02	1200pF	My	R222	06S55065F97	22K	1/6W	Rd	
C513	23T42478F09	4.7uF	25V	E1	R223	06S55065F69	1.5K	1/6W	Rd
C514	23S42478F09	4.7uF	25V	E1	R224	06S55065F69	1.5K	1/6W	Rd
C515	23S40657F14	100uF	16V	E1	R225	06S55066F02	33K	1/6W	Rd
C516	23S41198U42	220uF	25V	E1	R226	06S55066F02	33K	1/6W	Rd
C517	23S42478F09	4.7uF	25V	E1	R227	06S55066F37	910K	1/6W	Rd
C518	23T42478F09	4.7uF	25V	E1	R228	06S55066F02	910K	1/6W	Rd
C521	08S40656F13	0.01uF	My	R229	06S55065F81	4.7K	1/6W	Rd	
C522	08S40656F13	0.01uF	My	R230	06S55065F81	4.7K	1/6W	Rd	
C523	08S40656F25	0.1uF	My	R235	06S55065F83	5.6K	1/6W	Rd	
C524	08S40656F25	0.1uF	My	R236	06S55065F83	5.6K	1/6W	Rd	
C525	23T42478F09	4.7uF	25V	E1	R239	06S55065F97	22K	1/6W	Rd
C526	23T42478F09	4.7uF	25V	E1	R240	06S55065F97	22K	1/6W	Rd
C527	08T55260F43	330pF	Ce	R241	06S55065F99	27K	1/6W	Rd	
C528	08T55260F43	330pF	Ce	R243	06S55065F65	1K	1/6W	Rd	
C529	08T55260F35	82pF	Ce	R244	06S55065F65	1K	1/6W	Rd	
C530	08T55260F35	82pF	Ce	R251	06S55065F91	12K	1/6W	Rd	
C531	08T55260F49	1000pF	Ce	R252	06S55065F91	12K	1/6W	Rd	
C532	08T55260F49	1000pF	Ce	R253	06S55065F57	470	1/6W	Rd	
C533	08T55260F43	330pF	Ce	R254	06S55065F57	470	1/6W	Rd	
C534	08T55260F43	330pF	Ce	R255	06S55065F89	10K	1/6W	Rd	
C535	08T55260F49	1000pF	Ce	R256	06S55065F89	10K	1/6W	Rd	
C536	08T55260F49	1000pF	Ce	R257	06S55066F30	470K	1/6W	Rd	
C538	08T52448F21	2200pF	Pp	R258	06S55066F30	470K	1/6W	Rd	
C539	08S40656F11	6800pF	My	R259	06S55066F38	1M	1/6W	Rd	
C540	08S40656F07	3300pF	My	R260	06S55066F38	1M	1/6W	Rd	
C541	08S40656F07	3300pF	My	R261	06S55065F89	10K	1/6W	Rd	
C542	08S40656F13	0.01uF	My	R262	06S55065F89	10K	1/6W	Rd	
C543	23S40657F20	47uF	25V	E1	R263	06S55066F14	100K	1/6W	Rd
C555	08T55260F43	330pF	Ce	R264	06S55066F14	100K	1/6W	Rd	
C556	08T55260F43	330pF	Ce	R301	06S55065F81	4.7K	1/6W	Rd	
C501	23S40657F28	1uF	50V	E1	R302	06S55066F06	47K	1/6W	Rd
C502	08T55260F61	0.01uF	Ce	R303	06S55065F41	100	1/6W	Rd	
C503	23S40657F16	4.7uF	25V	E1	R304	06S55065F41	100	1/6W	Rd
C504	23S40657F21	100uF	25V	E1	R305	06S55066F14	100K	1/6W	Rd
C505	23S40657F16	4.7uF	25V	E1	R306	06S55066F14	100K	1/6W	Rd
C506	23S40657F10	10uF	16V	E1	R307	06S55066F24	270K	1/6W	Rd
C507	23S40657F16	4.7uF	25V	E1	R308	06S55066F24	270K	1/6W	Rd
C509	23S40657F28	1uF	50V	E1	R309	06S55066F06	47K	1/6W	Rd
(Resistor)									
R101	06T55177F69	1.5K	1W	Rm	R311	06S55065F74	2.4K	1/6W	Rd
R102	06T55177F53	330	1W	Rm	R312	06S55065F74	2.4K	1/6W	Rd
R203	06S55065F41	100	1/6W	Rd	R313	06S55065F71	1.8K	1/6W	Rd
R204	06S55065F41	100	1/6W	Rd	R314	06S55065F71	1.8K	1/6W	Rd
R205	06S55065F89	10K	1/6W	Rd	R319	06T55179F47	180	2W	Rm
R206	06S55065F89	10K	1/6W	Rd	R320	06T55179F47	180	2W	Rm
R207	06S55065F81	4.7K	1/6W	Rd	R321	06S55065F81	4.7K	1/6W	Rd
R208	06S55065F81	4.7K	1/6W	Rd	R322	06S55065F83	5.6K	1/6W	Rd
R209	06S55065F89	10K	1/6W	Rd	R323	06S55065F73	2.2K	1/6W	Rd
R210	06S55065F89	10K	1/6W	Rd	R324	06S55065F87	8.2K	1/6W	Rd
R211	06S55065F89	10K	1/6W	Rd	R325	06S55066F02	33K	1/6W	Rd
R212	06S55065F89	10K	1/6W	Rd	R326	06S55066F02	33K	1/6W	Rd
R213	06S55066F14	100K	1/6W	Rd	R327	06S55065F97	22K	1/6W	Rd
R214	06S55066F14	100K	1/6W	Rd	R328	06S55065F97	22K	1/6W	Rd
R215	06S55065F53	330	1/6W	Rd	R329	06S55066F08	56K	1/6W	Rd
R216	06S55065F53	330	1/6W	Rd	R330	06S55066F08	56K	1/6W	Rd
R219	06S55066F22	220K	1/6W	Rd	R331	06S55066F08	56K	1/6W	Rd
R220	06S55066F22	220K	1/6W	Rd	R332	06S55066F08	56K	1/6W	Rd
R221	06S55065F97	22K	1/6W	Rd	R333	06S55065F82	5.1K	1/6W	Rd

Symbol No.	Stock No.	Description	Symbol No.	Stock No.	Description				
R334	06555065F82	5.1K	1/6W	Rd	R439	06555065F89	10K	1/6W	Rd
R335	06555065F93	15K	1/6W	Rd	R440	06555065F89	10K	1/6W	Rd
R336	06555065F93	15K	1/6W	Rd	R443	06555065F65	1K	1/6W	Rd
R337	06555065F47	180	1/6W	Rd	R444	06555065F65	1K	1/6W	Rd
R338	06555065F47	180	1/6W	Rd	R501	06555066F08	56K	1/6W	Rd
R339	06555065F06	47K	1/6W	Rd	R502	06555066F08	56K	1/6W	Rd
R340	06555066F06	47K	1/6W	Rd	R503	06555066F01	30K	1/6W	Rd
R341	06555065F84	6.2K	1/6W	Rd	R504	06555066F01	30K	1/6W	Rd
R342	06555065F84	6.2K	1/6W	Rd	R505	06555066F16	120K	1/6W	Rd
R343	06555066F12	82K	1/6W	Rd	R506	06555066F16	120K	1/6W	Rd
R344	06555066F12	82K	1/6W	Rd	R507	06555066F04	39K	1/6W	Rd
R345	06555065F41	100	1/6W	Rd	R508	06555066F04	39K	1/6W	Rd
R346	06555065F41	100	1/6W	Rd	R509	06555066F07	51K	1/6W	Rd
R347	06555066F38	1M	1/6W	Rd	R510	06555066F07	51K	1/6W	Rd
R348	06555066F38	1M	1/6W	Rd	R511	06555065F95	18K	1/6W	Rd
R349	06555065F82	5.1K	1/6W	Rd	R512	06555065F95	18K	1/6W	Rd
R350	06555065F82	5.1K	1/6W	Rd	R513	06555065F89	10K	1/6W	Rd
R351	06555065F89	10K	1/6W	Rd	R514	06555065F89	10K	1/6W	Rd
R352	06555065F89	10K	1/6W	Rd	R515	06555066F10	18K	1/6W	Rd
R353	06555066F10	68K	1/6W	Rd	R516	06555066F10	18K	1/6W	Rd
R354	06555066F10	68K	1/6W	Rd	R517	06555066F10	68K	1/6W	Rd
R355	06555065F81	4.7K	1/6W	Rd	R518	06555066F10	68K	1/6W	Rd
R356	06555065F81	4.7K	1/6W	Rd	R519	06555066F10	68K	1/6W	Rd
R357	06555065F50	240	1/6W	Rd	R520	06555066F10	18K	1/6W	Rd
R358	06555065F50	240	1/6W	Rd	R521	06555065F06	47K	1/6W	Rd
R359	06555065F08	56K	1/6W	Rd	R522	06555066F06	47K	1/6W	Rd
R360	06555065F08	56K	1/6W	Rd	R523	06555066F08	56K	1/6W	Rd
R361	06555065F49	220	1/6W	Rd	R524	06555066F08	56K	1/6W	Rd
R362	06555065F49	220	1/6W	Rd	R525	06555065F75	2.7K	1/6W	Rd
R363	06555065F87	8.2K	1/6W	Rd	R526	06555065F75	2.7K	1/6W	Rd
R364	06555065F87	8.2K	1/6W	Rd	R527	06555065F89	10K	1/6W	Rd
R365	06555065F84	6.2K	1/6W	Rd	R528	06555065F89	10K	1/6W	Rd
R366	06555065F84	6.2K	1/6W	Rd	R531	06555065F44	130	1/6W	Rd
R367	06555066F12	82K	1/6W	Rd	R532	06555065F44	130	1/6W	Rd
R368	06555066F12	82K	1/6W	Rd	R533	06555065F89	10K	1/6W	Rd
R369	06555065F65	1K	1/6W	Rd	R534	06555065F89	10K	1/6W	Rd
R370	06555065F65	1K	1/6W	Rd	R537	06555065F41	100K	1/6W	Rd
R371	06555065F77	3.3K	1/6W	Rd	R538	06555065F41	100K	1/6W	Rd
R372	06555065F77	3.3K	1/6W	Rd	R539	06555066F02	33K	1/6W	Rd
R373	06555065F87	8.2K	1/6W	Rd	R540	06555066F02	33K	1/6W	Rd
R374	06555065F87	8.2K	1/6W	Rd	R541	06555066F20	180K	1/6W	Rd
R375	06555065F82	5.1K	1/6W	Rd	R542	06555066F20	180K	1/6W	Rd
R376	06555065F82	5.1K	1/6W	Rd	R543	06555065F89	10K	1/6W	Rd
R377	06555065F87	8.2K	1/6W	Rd	R544	06555065F89	10K	1/6W	Rd
R378	06555065F87	8.2K	1/6W	Rd	R545	06555066F38	1M	1/6W	Rd
R379	06555065F83	5.6K	1/6W	Rd	R546	06555066F38	1M	1/6W	Rd
R380	06555065F83	5.6K	1/6W	Rd	R547	06555065F89	10K	1/6W	Rd
R425	06555065F59	560	1/6W	Rd	R548	06555065F89	10K	1/6W	Rd
R426	06555065F59	560	1/6W	Rd	R549	06555065F89	10K	1/6W	Rd
R427	06555065F81	4.7K	1/6W	Rd	R550	06555065F89	10K	1/6W	Rd
R428	06555065F81	4.7K	1/6W	Rd	R552	06555065F01	2.2	1/6W	Rd
R429	06555065F55	390	1/6W	Rd	R553	06T55175F17	10	1/2W	Rm
R430	06555065F55	390	1/6W	Rd	R554	06T55175F17	10	1/2W	Rm
R431	06555066F12	82K	1/6W	Rd	R555	06S55065F97	22K	1/6W	Rd
R432	06555066F12	82K	1/6W	Rd	R556	06S55065F97	22K	1/6W	Rd
R435	06T55175F53	330	1W	Rm	R557	06S55065F57	470	1/6W	Rd
R436	06T55175F53	330	1W	Rm	R558	06S55065F57	470	1/6W	Rd
R437	06T55275F29	33K	1/2W	Rm					
R438	06T55275F29	33K	1/2W	Rm					

Symbol No.	Stock No.	Description
R559	06S55065F77	3.3K 1/6W Rd
R560	06S55065F97	22K 1/6W Rd
R561	06S55065F81	4.7K 1/6W Rd
R630	06S55065F97	22K 1/6W Rd
R631	06S55065F75	2.7K 1/6W Rd
R632	06S55065F89	10K 1/6W Rd
R901	06S55065F89	10K 1/6W Rd
R902	06S55065F89	10K 1/6W Rd
R903	06S55065F97	22K 1/6W Rd
R904	06S55065F97	22K 1/6W Rd
R905	06S55065F97	22K 1/6W Rd
R906	06S55065F89	10K 1/6W Rd
R907	06S55065F89	10K 1/6W Rd
R908	06S55065F89	10K 1/6W Rd
R909	06S55065F81	4.7K 1/6W Rd
R910	06S55065F97	22K 1/6W Rd
R911	06S55065F97	22K 1/6W Rd
R912	06S55066F06	47K 1/6W Rd
R913	06S55065F89	10K 1/6W Rd
R914	06S55065F89	10K 1/6W Rd

Symbol No.	Stock No.	Description
R917	06S55065F87	8.2K 1/6W Rd
R918	06S55065F73	2.2K 1/6W Rd
R919	06S55065F97	22K 1/6W Rd
R920	06S55066F02	33K 1/6W Rd
R921	06S55065F97	22K 1/6W Rd
R923	06S55065F97	22K 1/6W Rd
R924	06S55065F97	22K 1/6W Rd
R925	06S55065F93	15K 1/6W Rd
R926	06S55066F02	33K 1/6W Rd
R927	06S55066F02	33K 1/6W Rd
R928	06S55065F89	10K 1/6W Rd
R929	06S55065F89	10K 1/6W Rd
R930	06S55065F89	10K 1/6W Rd
R931	06S55065F89	10K 1/6W Rd
R932	06S55065F89	10K 1/6W Rd
R933	06S55065F89	10K 1/6W Rd
R934	06S55065F89	10K 1/6W Rd
R935	06S55065F89	10K 1/6W Rd
R936	06S55065F89	10K 1/6W Rd
R937	06S55065F89	10K 1/6W Rd

Control PCB Parts List

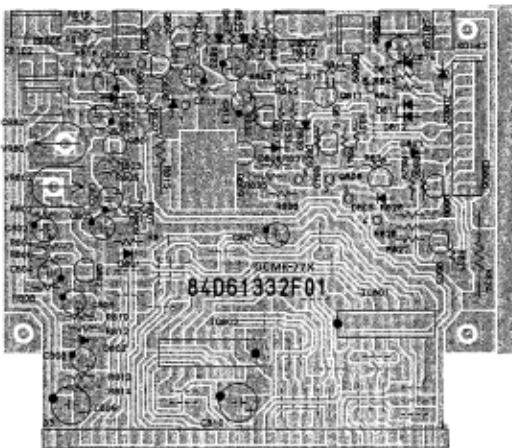


Symbol No.	Stock No.	Description
(IC)		
IC601	51S47110F01	BAB43
IC602	51T52852F01	MS1143L
(Transistor)		
Q103	48T47144F03	2SD400-F
Q601	48T43015U01	2SC2120-Y
Q602	48T43915U01	2SC2120-Y
Q603	48T43015U01	2SC2120-Y
Q604	48T43915U01	2SC2120-Y
Q605	48S43525F05	2SC1815-Y, GR
Q606	48S43525F05	2SC1815-Y, GR
Q607	48S43525F05	2SC1815-Y, GR
Q608	48S43525F05	2SC1815-Y, GR
Q609	48S4325F05	2SC1815-Y, GR
Q610	48S43525F05	2SC1815-Y, GR
Q611	48S43525F05	2SC1815-Y, GR

Symbol No.	Stock No.	Description
Q612	48S43525F05	2SC1815-Y, GR
Q613	48S43525F05	2SC1815-Y, GR
Q614	48S43525F05	2SC1815-Y, GR
Q615	48S43525E05	2SC1815-Y, GR
Q616	48S43525F05	2SC1815-Y, GR
Q617	48S43525F05	2SC1815-Y, GR
Q618	48S43525F05	2SC1815-Y, GR
Q619	48S43525F05	2SC1815-Y, GR
Q620	48S43525F05	2SC1815-Y, GR
Q622	48S43525F05	2SC1815-Y, GR
Q623	48S43525F05	2SC1815-Y, GR
Q624	48S43525F05	2SC1815-Y, GR
(Diode)		
D601	48T61129F01	GP10-4003-R5
D602	48T61129F05	GP10-4003-R5
D603	48T61129F01	GP10-4003-R5

Symbol No.	Stock No.	Description		Symbol No.	Stock No.	Description	
D604	48T61129F01	GP10-403-R5		C629	23S40657F10	10uF	16V
D605	48T58583F01	SS176PTA7		(Resistor)			
D606	48T58583F01	SS176PTA7		R103	06S55065F63	820	1/6W
D607	48T58583F01	SS176PTA7		R601	06S55065F73	2.2K	1/6W
D608	48T58583F01	SS176PAT7		R602	06S55065F59	560	1/6W
D609	48T58583F01	SS176PAT7		R603	06S55065F59	560	1/6W
D610	48T58583F01	SS176PAT7		R604	06S55065F53	330	1/6W
D611	48T58583F01	SS176PAT7		R605	06S55065F53	330	1/6W
D614	48T58583F01	SS176TAP-7		R656	06S55065F59	560	1/6W
D615	48T58583F01	SS176TAP-7		R607	06S55065F89	10K	1/6W
D616	48T58583F01	SS176TAP-7		R608	06S55065F53	330	1/6W
D617	48T57425F01	GE 1M 60FM		R609	06S55066F06	47K	1/6W
D618	48T58583F01	SS176PTA7		R610	06S55065F06	47K	1/6W
D619	48T58583F01	SS176PTA7		R611	06S57258F97	22K	1/6W
D920	48T58583F01	SS176PTA7		R612	06S55065F73	2.2K	1/6W
D621	48T58583F01	SS176PTA7		R615	06S55065F85	6.8K	1/6W
D622	48T58583F01	SS176PTA7		R616	06S55065F91	12K	1/6W
D623	48T58583F01	SS176PTA7		R617	06S55065F93	15K	1/6W
D624	48T58583F01	SS176PTA7		R618	06S55065F89	10K	1/6W
D625	48T58583F01	SS176PTA7		R619	06S55065F77	3.3K	1/6W
D626	48T58583F01	SS176PTA7		R620	06S55065F93	15K	1/6W
D627	48T58583F01	SS176PTA7		R621	06S55065F81	4.7K	1/6W
D628	58T58583F01	SS176PTA7		R622	06S55066F06	47K	1/6W
D629	48T58583F01	SS176PTA7		R623	06S55066F04	39K	1/6W
D634	48T57425F01	GE 1M 60FM		R624	06S55066F02	33K	1/6W
D635	48T58583F01	SS176PTA		R625	06S55065F41	100	1/6W
D637	48T58583F01	SS176PTA		R626	06S55065F53	330	1/6W
(Diode, Zener)				R627	06S55065F77	3.3K	1/6W
ZD103	48T40150U32	HZ6B-2		R628	06S55066F06	47K	1/6W
(Capacitor)				R629	06S55066F02	33K	1/6W
C108	23S40657F10	10uF	16V	E1	R633	06S55065F77	3.3K
C109	23S40657F10	10uF	16V	E1	R634	06S55065F77	3.3K
C601	23S40657F27	0.47uF	50V	E1	R635	06S55065F89	10K
C602	23S40657F10	10uF	16V	E1	R636	06S55065F77	3.3K
C603	23S40657F09	220uF	10V	E1	R637	06S55065F77	3.3K
C604	23S40657F09	220uF	10V	E1	R638	06S55065F69	1.5K
C605	23S40657F14	100uF	10V	E1	R639	06S55065F69	1.5K
C606	23S40657F10	10uF	16V	E1	R640	06S55066F02	33K
C607	08T55269F61	0.01uF		Ce	R641	06S55066F02	33K
C608	23S40657F09	220uF	10V	E1	R642	06S55066F36	820K
C609	08T55260F61	0.01uF		E1	R643	06S55066F31	510K
C610	23S40657F14	100uF	16V	E1	R645	06S55066F06	47K
C611	08T55206F61	0.01uF		Ce	R646	06S55065F69	1.5K
C612	08T55260F61	0.01uF		Ce	R647	06S55065F59	560
C613	08T55260F61	0.01uF		Ce	R648	06S55065F73	2.2K
C614	08T55260F61	0.01uF		Ce	R650	06S55065F97	22K
C615	08T55260F61	0.01uF		Ce	R651	06S55065F97	22K
C616	08T55260F61	0.01uF		Ce	R654	06S55065F89	10K
C617	23S40657F13	47uF	16V	E1	R655	06S55066F14	100K
C618	23S40657F28	1uF	50V	E1	R656	06S55065F89	10K
C619	23S40657F14	100uF	16V	E1	R657	06S55066F06	47K
C620	08T55260F49	1000pF		Ce	R658	06S55065F97	22K
C621	23S40657F30	3.3uF	50V	E1	R659	06S55065F93	15K
C622	23T42478F18	0.1uF	50V	E1	R660	06S55066F06	47K
C623	23S40657F29	2.2uF	50V	E1	R661	06S55065F97	22K
C624	23S40657F29	2.2uF	50V	E1	R662	06S55065F97	22K
C625	23S40657F18	22uF	25V	E1	R663	06S55066F06	47K
C626	23S40657F10	10uF	16V	E1	R664	06S55065F97	22K
C627	08T55260F61	0.01uF		Ce	R665	06S55066F97	47K

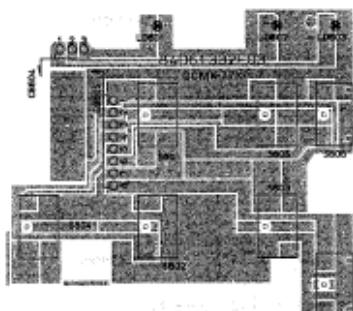
FL Meter PCB Parts List



Symbol No.	Stock No.	Description	
(Variable, Resistor)			
VR801	18T52946F17	47K	
VR802	18T52946F17	47K	
(FL Meter)			
E801	65T52950F01	FIP	12DW7YS
(IC)			
IC801	51T42626F01	HA12019	
IC802	51T42626F01	HA12019	
(Transistor)			
Q801	48S43525F05	2SC1815-Y, GR	
Q802	48S43525F05	2SC1815-Y, GR	
(Diode)			
D801	48T43982F01	GE OA95	
D802	48T43982F01	GE OA95	
(Diode, Zener)			
ZD801	48T40150U32	HZ	6B-2
(Capacitor)			
C801	23S40657F10	10uF	16V
C802	23S40657F10	10uF	16V
C803	23S40657F17	10uF	25V
C804	23S40657F17	10uF	25V
C805	23S40657F17	10uF	25V
C806	23S40657F17	10uF	25V
C807	23T42478F21	0.33uF	50V
C808	23T42478F21	0.33uF	50V

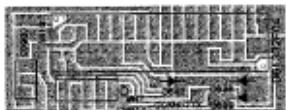
Symbol No.	Stock No.	Description	
C809	23S40657F21	100uF	25V
C810	23S40657F21	100uF	25V
C816	23S40657F26	47uF	35V
(Resistor)			
R801	06S55065F89	10K	1/6W Rd
R802	06S55065F89	10K	1/6W Rd
R803	06S55066F29	430K	1/6W Rd
R804	06S55066F29	430K	1/6W Rd
R805	06S55065F71	1.8K	1/6W Rd
R806	06S55065F71	1.8K	1/6W Rd
R807	06S55066F18	150W	1/6W Rd
R808	06S55066F18	150W	1/6W Rd
R809	06S40151T50	3.3M	1/4W Rd
R810	06S40151T50	3.3K	1/4W Rd
R811	06S55065F85	6.8K	1/6W Rd
R812	06S55065F85	6.8K	1/6W Rd
R813	06S55065F49	220	1/6W Rd
R814	06S55065F49	220	1/6W Rd
R815	06S55179F47	180	2W Rd
R816	06S55065F41	100	1/6W Rd
R817	06S55065F41	100	1/6W Rd
R818	06S55065F41	100	1/6W Rd
R819	06T55175F51	270	1/2W Rm

Key Board Switch Parts List



Symbol No.	Stock No.	Description
<u>(Switch)</u>		
S601	40T44505F01	SW, KHG
S602	40T44505F01	SW, KHG
S603	40T44505F01	SW, KHG
S604	40T44505F01	SW, KHG
S605	40T44505F01	SW, KHG
S606	40T44505F01	SW, KHG
S607	40T44505F01	SW, KHG

Rotary Switch PCB Parts List



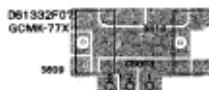
Symbol No.	Stock No.	Description
<u>(Switch)</u>		
S616	40T57206F01	SRZ-S 6-4
<u>(Diode)</u>		
D638	48T44813F01	MA165TA-AX
D639	48T44813F01	MA165TA-AX
D640	48T44813F01	MA165TA-AX

Head Phone PCB Parts List



Symbol No.	Stock No.	Description
<u>(Jack)</u>		
J401	09T60076F02	Head Phone

Music Scan PCB Parts List



Symbol No.	Stock No.	Description
<u>(Switch)</u>		
S609	40T44505F01	SW, KHG
S610	40T44505F01	SW, KHG

Memory Switch PCB Parts List



Symbol No.	Stock No.	Description
(Switch)	40T57208F01	SW, Push SPH12-A
(Diode)	48T44813F01	MA165TA
D641		

Indicator PCB Parts List



Symbol No.	Stock No.	Description
(Lamp)		
PL617	65B43447J03	Lamp Pilot
PL618	65B43447J03	Lamp Pilot
PL619	65B43447J03	Lamp Pilot

Power Supply PCB Parts List



Symbol No.	Stock No.	Description
(Transistor)		
Q101	48T56031F01	2SD1266-P, Q
Q102	48T56031F01	2SD1266-P, Q
Q104	48S43525F05	2SC1815-Y, GR
Q105	48S43525F05	2SC1815-Y, GR

Reed Switch PCB Parts List



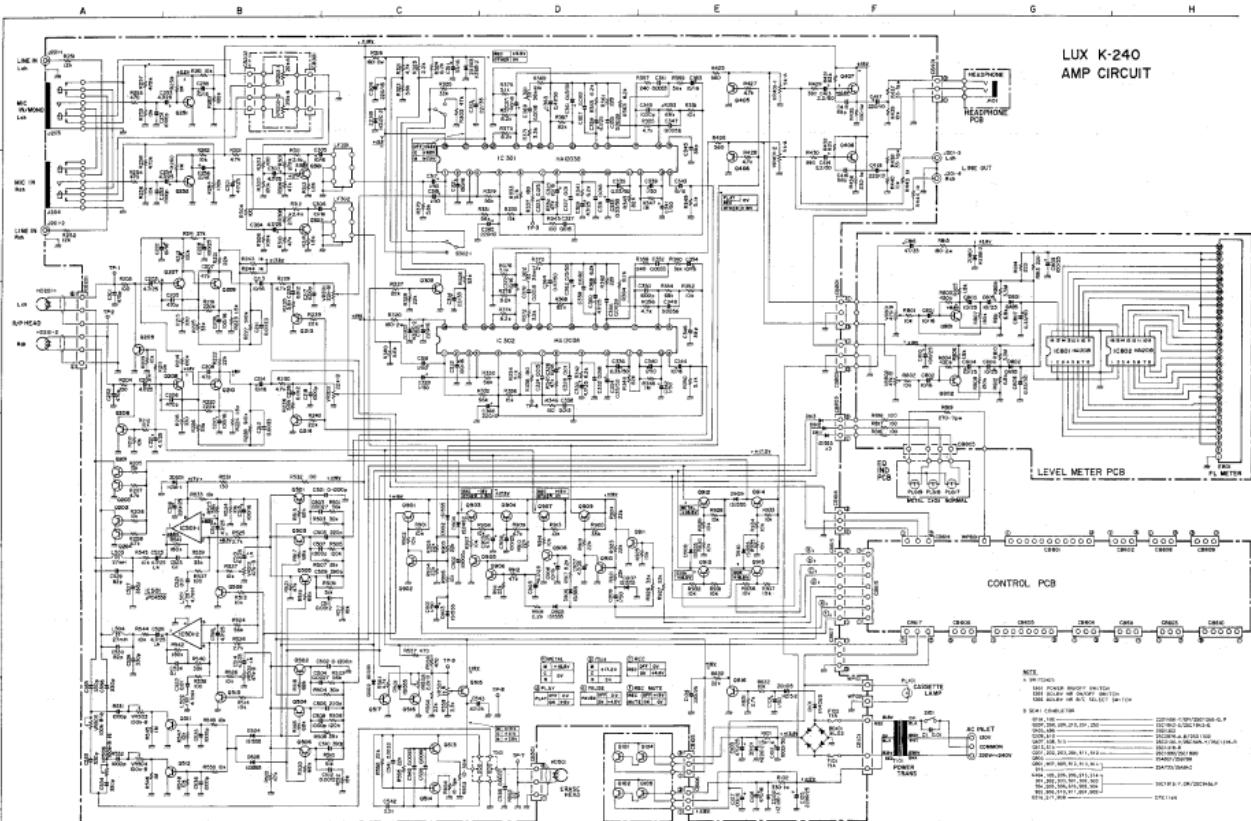
Symbol No.	Stock No.	Description
(Switch)	40T47104F01	SW, Reed

Remarks

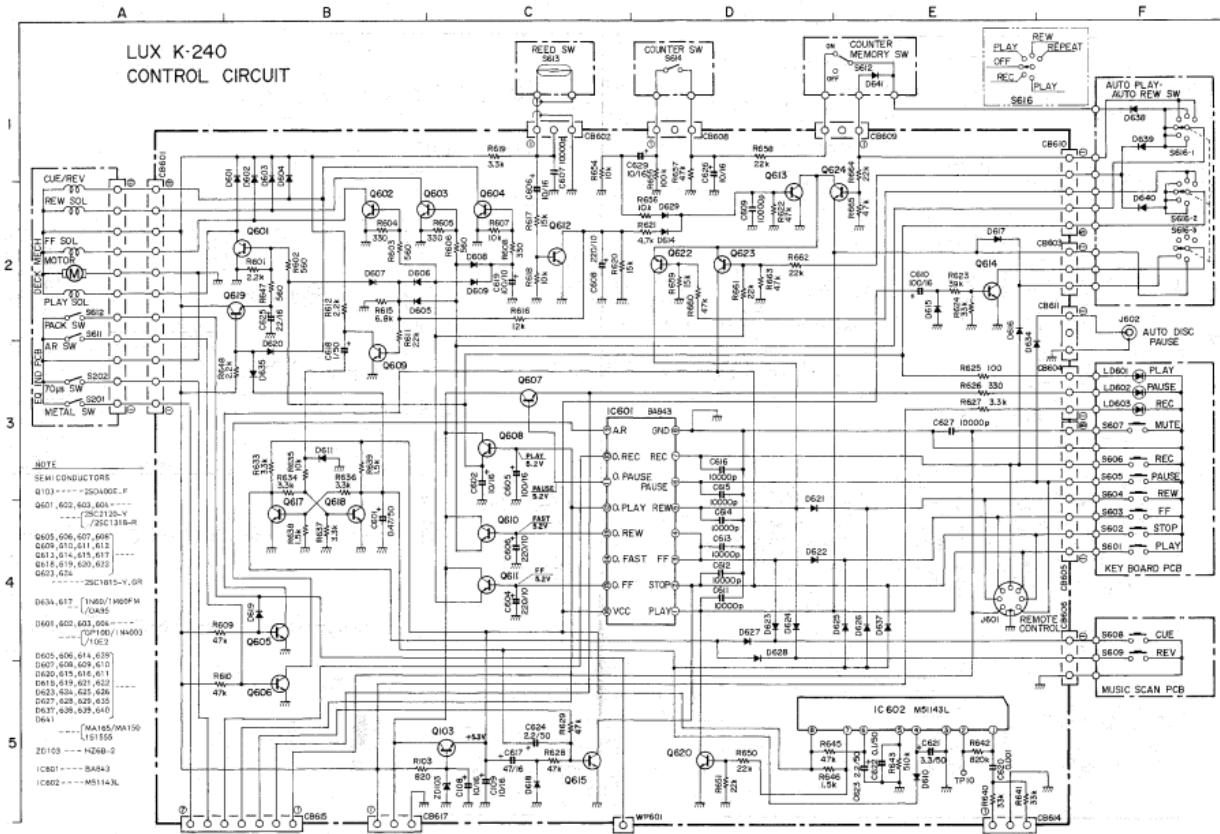
Capacitor:	EL	Electrolytic, Capacitor
	Ce	Ceramic, Capacitor
	My	Mylar, Capacitor
	Mi	Mica, Capacitor
	Pe	Polyethelen, Capacitor
	Po	Polystyrene, Capacitor
	Pp	Polypropilene, Capacitor
	LR	Low Leak, Capacitor
	PR	Bi Polar, Capacitor

Resistor: R_d Carbon, Resistor
 R_m Metal Film, Resistor
 R_c Cement, Resistor

Schematic Diagram(A)



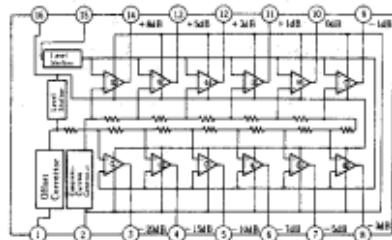
Schematic Diagram(B)



IC Handling Guide

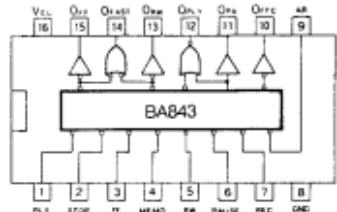
HA12019 IC801, 802 (Stock No. 51T42626F01)

Fluorescent Tube Driver for Bar Graph Display



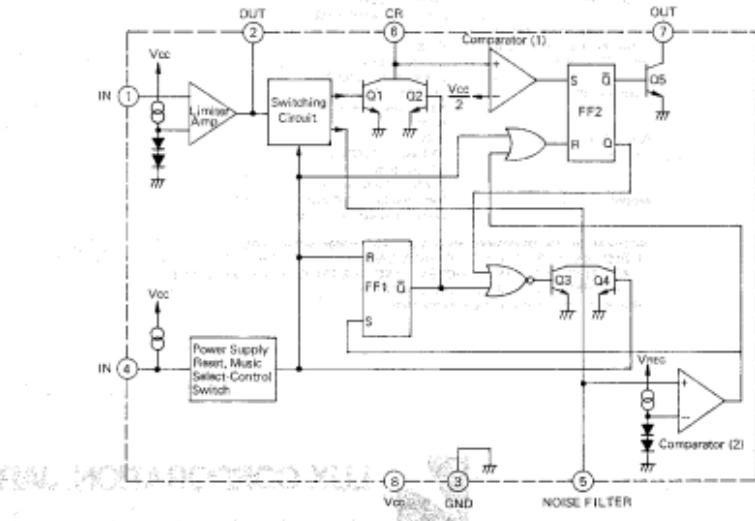
BA843 IC601 (Stock No. 51S47110F01)

Key Control



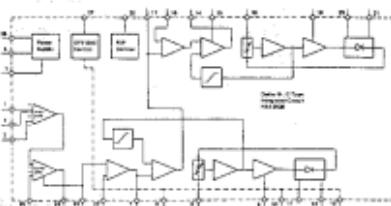
MS11435 IC602 (Stock No. 61T52852F01)

Music Sensor



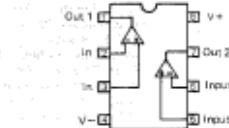
HA12038-01 IC301, IC302 (Stock No. 51T52160F01)

Dolby-Band-C Type Noise Reduction System



μ PC4558 IC501 (Stock No. 51S43471U02)

Microcontroller



(Top View)

Destination's Parts List

Symbol No.	Description	Power Source		
		AG (240V) England & Oceania	AK, SK, BK, EK (220V) Europe	UQ (120V) Canada
P5, 62	AC Cord, Set Label	30T60973F01 54A51739F01	30T60805F01 54A51740F01	30T60804F01 54A56257F03

Specifications

Heads:	2
Record head	Hexalarm
Play back head	Double Gap Ferrite
Erase head	
Wow & Flutter: (WRMSI)	0.04%
Signal-to-Noise Ratio:	
(CCIR weighted)	
Metal-Tape, without NR	58dB
Metal-Tape, with Dolby-B-NR	67dB
Metal-Tape, with Dolby-C-NR	71dB
CrO ₂ -Tape, without NR	58dB
CrO ₂ -Tape, with Dolby-B-NR	67dB
CrO ₂ -Tape, with Dolby-C-NR	71dB
Nor.-Tape, without NR	57dB
Nor.-Tape, with Dolby-B-NR	65dB
Nor.-Tape, with Dolby-C-NR	70dB
Frequency Response:	
Metal Tape:	20Hz~20,000Hz (20Hz~18,000Hz±3dB)
CrO ₂ Tape:	20Hz~18,000Hz (20Hz~16,000Hz±3dB)
Nor. Tape:	20Hz~17,000Hz (20Hz~15,000Hz±3dB)
The 3rd Harmonic Distortion:	
(Normal tape, 1kHz, 0dB)	0.7%
Input Sensitivity:	
line in:	80mV
microphone:	300µV
Output Level:	
line out:	500mV
headphone:	1mW
	(8 ohms load)
Power Consumption:	20W
Dimensions:	453(W) x 270(D) x 111(H) mm (17.8" x 10.6" x 4.3")
Weight:	Net: 5.0 kg (11.0 lbs) Gross: 6.0 kgs (13.2 lbs)

Specifications and appearance design subject to change without notice.

* NOISE REDUCTION CIRCUIT MADE UNDER LICENCE FROM DOLBY LABORATORIES. THE WORD "DOLBY" AND THE DOUBLE-D SYMBOL ARE THE TRADE MARKS OF DOLBY LABORATORIES.
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LUX CORPORATION, JAPAN

1-1, 1-CHOME, SHINSENI-NISHIMACHI, TOYONAKA-SHI, OSAKA 566
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